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REPLY UNDER 37 CFR 1.116  
EXPEDITED PROCEDURE  
TECHNOLOGY CENTER 3611

HES 2000-IP-001848U1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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OK to be  
entered  
1/31/05  
JFB

Applicants: Ronald E. Sweatman et al. )  
Serial No.: 10/082,459 ) Group Art Unit: 3672  
Filed: February 25, 2002 ) Examiner: Thomas S. Bomar  
For: METHODS OF DISCOVERING AND ) Date: January 10, 2005  
CORRECTING SUBTERRANEAN )  
FORMATION INTEGRITY )  
PROBLEMS DURING DRILLING )

Mail Stop AF  
Commissioner for Patents  
Post Office Box 1450  
Alexandria, Virginia 22313-1450

**RESPONSE TO FINAL OFFICE ACTION**

In response to the Office Action mailed on October 8, 2004, please amend the above-identified application as follows:

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on the date shown below.

Clifford C. Dougherty, III

Clifford C. Dougherty, III

January 10, 2005

Date of Signature